

ASBESTOS

Vol. 6

JANUARY 1925

No. 7

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— A S B E S T O S —

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A MONTHLY MARKET JOURNAL

DEVOTED TO THE INTERESTS OF THE
ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER

EDITOR

PUBLISHING OFFICE

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January 1925

Page Three

— A S B E S T O S —

Which Shall It Be?

(A Pageant)

Characters:

ASBESTOS INDUSTRY—Represented by a man.

YESTERDAY—The Spirit of Past Achievements.

TODAY—The Spirit of Present Inertia.

TOMORROW—The Spirit of Future Promise.

(Time—December 31, 1924—near evening)

The curtain goes up on ASBESTOS INDUSTRY seated in an armchair before an open fire. His attitude is thoughtful repose, and he is smoking. The rest of the room is in shadow.

Enter YESTERDAY.

ASBESTOS INDUSTRY (rather startled): Who are you—a vision?

YESTERDAY: I? I am the Spirit of Yesterday, the Spirit of Past Achievements. I have come to comfort you, if that comfort be needed. Furthermore, I have come to congratulate you. You are a great Industry, one that is tremendously important to the industrial world. Without you many lives would be lost; without you industry could hardly function. You protect millions. You it is who makes possible the running of automobiles, the safety of steamships. You help to protect from winter's icy blast; you helped win the war. Many and great are your achievements.

ASBESTOS INDUSTRY: Ah yes, I know, but somehow the past does not satisfy me.

YESTERDAY: But think, O Asbestos Industry. It is only a few years since you have been in existence at all—yet what strides you have made. Just a few years ago you were unknown; now your influence is felt, even if not realized, all over the world—by every human. Should you not be satisfied with the great accomplishments of those few years?

ASBESTOS INDUSTRY (thoughtfully): Yes, that is true. Perhaps it is better that we think of the past. Truly, the accomplishments have been great. But who comes now?

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Enter TODAY (Yesterday steps to one side to make room for her).

TODAY: I am TODAY—the Present. I have been listening to YESTERDAY and I quite agree with her that you should be proud of past achievements. But you should also be content with present day conditions. It is today in which you must live and work and accomplish. You are trying, are you not, to do your best? Even if the best does not seem to be accomplishing what you should like, is it not better than it might have been?

Every now and then something new comes up that gives you a little more business. True you are not making much money, but should you not be content with the prestige you now enjoy, with the many things that come your way with hardly any effort on your part? Why be unhappy when you have so many things to be thankful for? Why not jog along comfortably and contentedly? A great Industry like you cannot fail. It must go on. It is essential to the world's progress, and the world is not going to stop. Ships *must* run; automobiles *must* be built; steam pipes *must* be covered. Surely there are many things in the present which you can be thankful for. Why not lean back in that easy chair, think of past achievements as YESTERDAY advises, make yourself content with present day conditions, and wait for something to come along which will better your position? Sometime things must change—prosperity cannot hide her face for long. Why not rest content and enjoy life as it is now and not worry about tomorrow? Besides, what can you do more than you have already done? Come with us, YESTERDAY and TODAY, and we will give you contentment, if not prosperity.

ASBESTOS INDUSTRY (drowsily): Almost you have convinced me.

A step is heard outside, and

TOMORROW enters quickly, and with such vehemence that she startles ASBESTOS INDUSTRY into an upright posture and makes YESTERDAY and TODAY step back.

TOMORROW (addressing YESTERDAY and TODAY, imperiously): Begone! Flattering, fawning fools! Do you wish to cripple the man's ambition? Begone, I say!

(YESTERDAY and TODAY shrink back and disappear into the shadows.)

TOMORROW (turning to Asbestos Industry): I over-

— A S B E S T O S —

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— A S B E S T O S —

heard what YESTERDAY and TODAY have been saying. I have heard their flattery and smooth speeches. True the achievements of the past are and should be recognized, but it is not in the past we live. What good will it do you, ASBESTOS INDUSTRY, to recount the victories of the past? What good to be content with the sluggish, unprofitable present? TOMORROW calls. Before you lie greater achievements than you have ever seen—perhaps than you have ever imagined. Come with me, obey my commands and you shall have, not contentment, but prosperity and achievement.

ASBESTOS INDUSTRY (with hopeless gesture): But what can I do more than I have done?

TOMORROW: What *have you* done in the past? Was it really you who accomplished all that YESTERDAY would attribute to you? How many times have you taxed your brain to discover new uses for your product? How much time and thought have you given to problems which would better your condition? Was it you, or was it other industries who thought of the many applications of asbestos in the industrial world? Did you work out the uses for your product, or were they discovered by chance, by accident, or by necessity, which is the mother of invention?

As to what you can do, cannot present conditions be improved? Even TODAY, while she is urging you to lie back on your laurels and be content, realizes that they can. But TODAY knows that it will take work, and TODAY is lazy.

You may have done great things in the past—you can do greater things in the future. No use, however, to go at it feebly. You must put your whole soul into it. You must concentrate every energy and faculty on the problem. Care not for what anyone says. Discard that or those which may prove an hindrance. Keep to the one course, let nothing turn you aside. Work—and the prize, the pride of accomplishment, the results of management, the prosperity, are yours!

But you must and now, choose which it shall be—YESTERDAY's laurels, TODAY's sluggishness and ease—or TOMORROW's hard work and accomplishment.

WHICH SHALL IT BE?

— A S B E S T O S —

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EXPORT

— A S B E S T O S —

“Asbestos Whiskers for Santa Claus”

BY B. F. RUBY

This was the war cry with which Fire Chief Hedden, of Buffalo, set about eliminating the fire risks on Christmas Day in that city.

For several days before Christmas, statements and bulletins were issued to the papers daily, and posted in street-cars and other public places, warning against the dangers that surround the Christmas tree. He recommended that candles on Christmas trees be dispensed with in favor of the more safe electric light strings and that no matter how much the children wanted them, toys run by alcohol, oil and gasoline should be let alone.

But he concluded every warning with an especial note in favor of asbestos. “Metal tinsel and flake asbestos should be used instead of paper clippings and cotton on Christmas trees,” said he. “It may cost a little more, but with the safety of your children at stake are you not willing to spend a little more on the Christmas celebration?”

If Santa Claus is to be present at the celebration,” he added, “be sure to persuade him to substitute asbestos for cotton whiskers. He is a kind-hearted old gent, and I am sure he would not wish to endanger the celebration.”

As a result of the effective publicity given these methods of avoiding the dangers of a merry Christmas, Buffalo suffered an unusually safe and sane Christmas Day, the first in several years according to the records, without one serious fire.

Value of building contracts awarded in November showed a decrease from October, the October figure being \$410,090,800, while November was \$379,659,600. The amount of floor space, however, increased in November about 200,000 square feet over October.

The value of contracts awarded for residential buildings showed an increase in value during November of approximately \$25,000,000, all other classifications showing decreases.

— A S B E S T O S —

Elwood J. Wilson

He believes business training is necessary to the success of an engineer.

By RUTH BRINDZE, Universal Trade Press Syndicate

Elwood J. Wilson is a fledgling in the asbestos business. He has been interested in asbestos mining for but ten years. Despite this fact he has several new processes to his credit. Having aided in the development of a number of large companies, he now has offices of his own at No. 350 Madison Avenue, in New York, and as a consulting engineer with a keen knowledge of the problems that face the asbestos producer, his advice is widely sought.



Mr. Wilson is tall, with broad shoulders and with eyes that seem to size up both men and situations with unusual celerity. He is a good example, brought up and educated in Boston, of the Easterner who has learned much from the West. If he ever gets tired of the asbestos business it is entirely likely that he would be a great success as the owner

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of a "Dude" ranch in Wyoming. It is from his type that such men come. They have an understanding of both sections of the nation.

While fully appreciative of the necessity for thorough technical knowledge, an appreciation absorbed by him during his course at the Massachusetts Institute of Technology from which he was graduated in 1896, Mr. Wilson emphasizes the further necessity of training in business principles. This, he believes, is somewhat neglected in the universities and colleges of America.

Following his graduation from M. I. T. he struck out for the West. While in Montana and Colorado he worked in the silver, gold and lead mines. He stayed there for eighteen years and profited by his experiences. Then, on a visit to the East in 1914 a friend told him about some asbestos mines up at Thetford, Canada. He went up to look at the mines and became so interested in asbestos mining that he has remained in the field ever since.

The first work he did was for the Jacobs Asbestos Mining Company, now known as Consolidated Asbestos Limited, where he put in underground works at the mines at Thetford. Before Mr. Wilson took charge of the mine the old system of open pit mining had been used. Mr. Wilson put in a new hoisting and drying plant, the first time this method had ever been used in the mining of asbestos. And it was very successful. The mining process became more rapid and better results were achieved. The system that Mr. Wilson installed is still being used at the Thetford mine.

In 1918, after his underground system was working well, Mr. Wilson opened an office in New York City and became consulting engineer for several companies. It was at this time that he became interested in the selling end of the asbestos business. He is connected now with a company owning a factory in northern New Jersey, where asbestos is fiberized.

So Mr. Wilson kept very busy for the next five years. When there was no actual engineering work to do, there was always something at the business end that needed his attention. In 1923 he closed his office in the city temporarily and went back to Canada as general manager of Asbestos Mines Limited, and of the Black Lake Asbestos and Chrome Company. In less than six months he had built

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a new mill for Asbestos Mines Limited at East Broughton, Canada, and had it in good running order. After Mr. Wilson had completed the work on the mill and the direction at the mine he returned to New York and reopened his office. The work at Asbestos Mines Limited and at the Black Lake Asbestos Mines were just interludes from the city work and the strictly business end.

Mr. Wilson has always been just as much interested in the business end as he has in the technical side of his work. That is the reason he gives for getting on in his profession.

"Whenever I give advice to a young man who is entering the field of engineering, I always tell him to learn the business end" Mr. Wilson declared. "When I first went out West all the men over me were good business men, and they gave me the same advice that I am giving the young men today."

"Too many men get stuck at engineering directly and never break away from the rut. Engineering is a very excellent thing to know, but to combine business ability with engineering, that is the best. Engineers should have special business training. There are plenty of engineers in the world now but there are not so many among them who are good business men and executives."

Mr. Wilson is insistent on the necessity for a knowledge of business, but he by no means believes in all work and no play. When he is doing a piece of engineering he gets out into the open, but when he is busy at his New York office he misses the exercise, and so to make up for this lack he plays golf. Plays golf, not works at golf. "There is a great difference in the two" he said and he smiled his twinkliest smile. "I'm very keen on golf, but I play it for pleasure. I suppose some people wouldn't even call me a great fan, but I do have a mighty good time. And I'm quite sure that originally that was what golf was meant for."

It seems that that is the way Mr. Wilson does nearly everything. He doesn't work so very hard, at least most of the times he doesn't seem to be working hard; yet he gets there, almost always right at the top of the list. It's all in the way you look at things. When most work is a pleasure nothing can be very hard.

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EDITORIALS

Our New Year's Resolution.

Scoff at New Year's resolutions as you will, joke about them, break them the first day, yet there are very few of you who do not make them year after year.

Some of you make them in a sporting manner, seeing how long you can keep them.

Some of you really do try, and if broken once, try all the harder to keep them intact the second time.

In any case the mere making of a resolution tends towards a stronger character. And because we stumble and fall is no reason why we should not pick ourselves up and begin all over again—cheerfully and determinedly.

The strongest character is not the one which has never had temptation, but the one which has been tempted and has overcome it.

As for our New Year's resolution, it is

To give better service to the asbestos industry during 1925 than ever before.



Who Succeeds You?

I do not know of any better text for the writing of a New Year's editorial, than a paragraph I read somewhere the other day. It said:

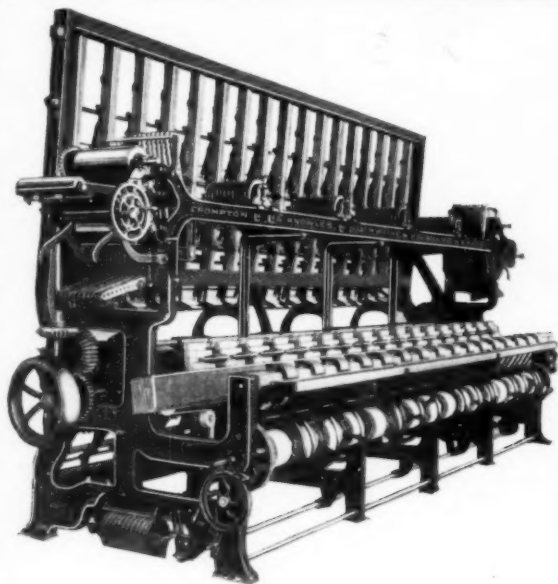
"The great difficulty with the average small business is that the owner tries to do everything himself. In so doing he fails to build an efficient organization. When he dies, the business dies with him."

If there is any time of the year when we are more likely to stop and give thought to the course we are pursuing, it is at the beginning of the year. It is at the New Year that we really start afresh, making new policies that will, we hope, eliminate old mistakes, laying out our route for the coming year, getting everything shipshape to do bigger and better business than the year before.

Most of these plans are made, however, with the idea that we will live to see them thru, that we will be here every minute ready to change the course a little, should something go wrong.

Pause a moment, however, in your plans for the year,

— A S B E S T O S —



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— A S B E S T O S —

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— A S B E S T O S —

and consider just what would happen if your life should end—in March for instance, in July, or possibly in September. Would things go on without interruption? Could they go on long enough at least to find a purchaser for the business?

The paragraph quoted referred to the "one-man concern," but many large corporations have no definite plan in view should the chief, or one of the department heads pass on.

It isn't possible, of course, to have one next in line that could immediately step in and carry on the business fully as well as the chief did, but it is possible, almost always, to have some one in training who can step in and take up the reins, even tho his guiding may at first not be as accurate as the chief's.

The difference consists chiefly in the training you have given your assistants and subordinates. If you have trained them to be alert, interested in the business, and in its progress, that training will go far to fit them for any emergency that may arise. If, however, they have been trained to be mere automatons, blindly obeying your will, agreeing with your opinions because they know that to disagree would be not only useless but unpleasant, the business will be subject to very rapid depreciation should you be forced to drop the reins.

It's a point well worth consideration: Do you have with you a real organization capable of thinking its own thoughts, of expressing its own opinions, of carrying on? Or do you have merely a machine which, with the motive power gone, would be useless?

A statement was made in the November issue of "ASBESTOS" in the article "The Asbestos Industry in Europe," to the effect that owing to the patent situation all the asbestos shingle manufacturing plants in Belgium, with the exception of "Eternit" had stopped manufacture.

One of the manufacturers takes exception to this statement, informing us that all but two of the manufacturers are working at full capacity.

The attention of the author of the article having been called to the error, he admits that he has undoubtedly been misinformed and asks that his apologies be extended to the Belgian shingle manufacturers.

ASBESTOS



This page devoted each month to discussion of brake lining activities by A. A. Mowbray, Commissioner of the Asbestos Brake Lining Association

A Review of 1924

Reviewing the activities of the A. B. L. A. during 1924, recalls that during the past year the members have accomplished many desirable things. We tabulate them briefly:

1. Cooperated in having printed more than 160,000 copies of what is known as the **Standard Data Book**, thus effecting a saving of more than \$21,000 thru having one printer publish the edition simultaneously.

2. Cooperated in having obtained, revised and compiled all of the 1924 **Asbestos Brake Lining and Clutch Facing Specifications**, thus eliminating needless duplication and resulting in a further saving of time and money for both the members and the automotive vehicle manufacturers.

3. Cooperated in staging special **brake inspection on campaigns** in more than 160 different cities, towns and villages thus making the motoring public realize the importance of periodic attention to the control apparatus of their automobiles.

4. Cooperated in creating a greater demand for replacement stocks.

5. Cooperated in inducing the manufacturers of automotive vehicles to give greater consideration to braking apparatus.

6. Cooperated in distributing more than 2,000,000 gummed **stickers, safety tags** for steering wheels, window posters, brake inspection certificates and booklets.

7. Cooperated in conjunction with the Society of Automotive Engineers and other bodies in holding conference at Department of Commerce, Washington, D. C., at which preliminary steps were taken toward reducing the number of **asbestos brake lining sizes**.

8. Cooperated with twenty different national organizations in suggesting basis for **National Brake Safety Code** which was adopted at Conference on Street and Highway Safety held under auspices of Department of Commerce, at Washington, D. C., on December 16, 1924.

9. Cooperated in publishing, for the edification of the members, a **daily bulletin** giving news of interest relating to the industry.

10. Cooperated in furnishing, compiling and circulating **total production** of asbestos brake lining manufactured during 1923.

11. Cooperated in furnishing timely **press articles** to leading daily newspapers, trade, technical and class periodicals throughout the country.

— A S B E S T O S —

12. Cooperated in exchanging monthly reports on business conditions in the Industry.

13. Cooperated in starting work on standard catalog numbers relating to clutch facings.

14. Cooperated in launching compilation showing demand for various sizes of asbestos brake lining which will indicate just what vehicles use certain sizes.

15. Cooperated in maintaining own headquarters which serves as a clearing house of information for the industry.

16. Cooperated in placing at the disposal of a non-member the services of the association commissioner to serve as one of the arbitrators in a dispute involving many thousands of dollars.

17. Cooperated in staging demonstrations of latest mechanical devices of interest to the membership.

18. Cooperated in having industry officially represented at various meetings, conferences and conventions bearing on the industry.

19. Cooperated in obtaining information from automotive manufacturers abroad that is of interest to the industry.

20. Cooperated in sending information abroad about the industry in this country.

21. Cooperated in calling attention of fellow members to statements in advertisements which were not regarded as being strictly correct.

22. Cooperated in enlarging the membership of the association.

23. Cooperated in establishing a reserve fund for the organization.

24. Cooperated in holding meetings at which timely addresses were delivered on subjects of interest to the industry.

25. Cooperated in striving to establish and maintain a friendly feeling among competitors, who, thru frequent contact with one another, are gradually learning that in union there is strength and that an industry that is divided surely will fall.



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CONTRACTORS AND DISTRIBUTORS PAGE

A FEW OBVIOUS THINGS WHICH ARE OFTEN OVERLOOKED

There has come into our hands recently a pamphlet published by the National Trade Extension Bureau of the Plumbing and Heating Industries which comments on the various factors that enter into the item of the "operating cost" of the contractor.

Doubtless we will quote from this book from time to time, for every page of it is well worth reading. For this month's page, however, we have picked out sentences scattered thru the book, which forcefully present an idea or a suggestion that may prove valuable to our readers. Perhaps the most of these points will be labeled by some of our readers as "obvious," but you know it is the obvious things that are most often overlooked.

1. The bonding of a bookkeeper, a collector, or any other employee handling the firm's money is not a sign of distrust on the part of the owner. It is merely sound business practice. Bonding of employees should become a more general practice, especially so if the shop does a large volume of business.

2. A good outside auditor will frequently point out ways and means for saving or making money for the business.

3. To decrease your "fixed charge, or operating cost" it is essential that you borrow as little capital as possible, not, however to the extent of losing your cash discount on supply bills. 2% for cash in ten days on thirty day supply accounts represents 36% per year. For such purposes as this you can well afford to borrow money from your bank.

4. It is always easier to borrow money from your bank when you are in position to give your bank accurate figures concerning your business.

5. The big thing that speeds up Turnover is active and progressive selling effort supported by prompt collections.

6. With competent stenographic and book-keeping help, the proprietor is given an opportunity for spending more time away from his office in making friends, soliciting and building up new business.

7. To say "I let my work do my advertising" is a way of expressing a truly foolish idea. A reputation for doing good work is certainly to be desired, but it does not create a desire for more contracting work.

8. A good contract form and a settled policy for doing business will keep the Dealer or Contractor out of a great deal of legal trouble.

There's a thought in each of these paragraphs. Consider them carefully, then write us your comments on one or more of them.

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— A S B E S T O S —

MARKET CONDITIONS

Our remarks on the market situation this month will be necessarily brief. In the first place everyone has been so busy with Christmas activities, end of the year inventories, New Year's plans etc., that there has been little time to stop and sum up the condition of the market. And owing to these many end of the year activities, no real movement for improvement or otherwise has set in.

The year appears to be starting out strongly. The situation at Washington, the nation's capitol, is more satisfactory to business interests than for some time. Evidently business has a friend at court in no less a person than our esteemed President.

Men in bigger business uniformly predict good business during 1925, and back up their predictions with safe and sane reasons therefor.

On the whole the general business situation at the beginning of 1925 is satisfactory. What about asbestos?

While the manufacturing end of the asbestos industry appears to have gone along without much in particular happening, developments in the mining end are significant. In the first place there is every hope that the proposed merger of the Canadian mine operators will go thru. In the second place higher prices are predicted and because of that expectation (and other factors probably not necessary to discuss here) some of the mines are turning down business. At least one of the mines is sold up for 1925, according to its own declaration, and on the whole the situation in the mining field looks more cheerful than it has for some time.

Manufacturing lines seem to be marking time. There is little change to be noted.

The brake lining field proves an attraction for many, every fortnight bringing reports of new firms entering or contemplating the manufacture of asbestos brake lining.

Undoubtedly the possibilities of the asbestos brake lining industry are large for those already in it, but whether unlimited as these new firms appear to believe, is a question.

The fact that 1924 automobile production was lower

— A S B E S T O S —



AMERICAN ASBESTOS COMPANY



*Manufacturers of
Asbestos Textiles*

NORRISTOWN, PA., U. S. A.

*Headquarters for
Yarns, Cloth, Tapes, Fibres, Brake
Linings and Textiles Generally*

WRITE FOR PRESENT PRICES

— A S B E S T O S —

by some 450,000 cars than 1923 would not appear to indicate a very large increase in equipment sales of brake lining. There is left therefore the replacement business, which undoubtedly can be greatly increased by intelligent publicity, but whether to an extent to provide sufficient business (and by sufficient we mean enough to enable the plants to be run with a reasonable margin of profit) for all, is a subject for very grave debate.

Summing up, we firmly believe that business will improve in practically all asbestos lines during 1925, but undoubtedly the improvement would be more rapid and greater if more publicity were given not particularly to individual lines, but to ASBESTOS and its many uses and possibilities.

Our English correspondent advises us that two large groups of railways, the London, Midland and Scottish and the London Northeastern, have both officially stated their intention to spend £14,000,000 and £6,000,000 respectively in the construction of new locomotives, etc., which should give a fillip to the asbestos industry in England, particularly to the blue asbestos mattress division.

Further our correspondent gives it as his opinion that because of the commitments under contracts for Rhodesian material, prices for all grades of white asbestos should rise in the near future, and suggests rather ironically that meanwhile, the buyer has the advantage of buying Canadian material at what appears to be below cost.

One of our correspondents in Africa writes us that the asbestos business in South Africa is developing slowly but surely, there being plenty of demand but production very slow.

New Year's Resolution Made By Members of the Asbestos Industry

*I will not cut my price unless my competitor does so
—or unless I am told he has done so.*

T H O M A S R O S E
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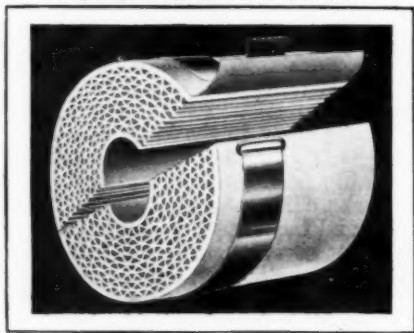
— A S B E S T O S —

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SALL MOUNTAIN COMPANY

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The Australian Deposits of Asbestos

Editor's Note: So little is known, or has been published concerning Australian Asbestos, that we are glad to quote this extract from "Minerals" published by the Australian Government during 1924.

Asbestiform actinolite, a variety of amphibole, is common among the hornblende and serpentine rocks of Western Australia, but the fibre, tho often very long, is too weak and brittle for any industrial use except as an insulator for boiler and steampipe coverings, and perhaps for weighting paper. No mines have yet been worked seriously for this mineral.

The valuable varieties of asbestos, chrysotile and antophyllite, have been found in the State in large quantities and in valuable deposits. and blue asbestos or crocidolite has been reported to exist in the Hamersley Range. The chrysotile deposits occur in the West Pilbara and Pilbara Goldfields at not less than ten places at intervals thru the country stretching from the coast near Roebourne easterly to near Nullagine. The principal workings have been at the Soanesville and Lionel centres, but there is every reason to anticipate that several of the other localities, such as Roebourne, Sherlock, Eginbah, and Nunggerri, will also be worked profitably when the asbestos industry has become more thoroly established, and suitable dressing plants are available.

The antophyllite asbestos has been found near Round Hill, Welbing, and Goomalling in a belt of basic rocks running from 70 miles northeast of Perth to 100 miles north northeast. The deposits have only been opened up to a small extent, and no detailed examinations of them have been made. It would appear, however, that in all cases the mineral occurs in brecciated zones of serpentine rock. Antophyllite is very variable in its structure, and in these deposits ranges from a hard, tough, sub-fibrous material which is valueless, to a very perfectly fibrous material in which the fibres are fine, long, easily separated and of excellent silky texture. Milling would readily separate this valuable fibre from its useless associates. Only a small

A S B E S T O S

amount of the mineral has been shipped and sold, some being used in the acid works near Perth.

The chrysotile deposits thruout the Northwest are alike in being lode-like in structure, following lines of shearing and fracture in serpentine rock. The vertical or inclined shear zones may be anything from two to ten feet in width, rarely 25 feet, within which there are innumerable interlacing veins of chrysotile ranging from a mere thread up to nearly 12 inches in width. The ore bodies are therefore usually rather narrow, and must be worked by underground mining methods instead of quarrying as in the case of the large Canadian deposits. As a compensation for the greater cost of raising the lodestuff, the rock mined frequently contains over 50% of marketable fibre. The veins supply an unusually large percentage of fibre of spinning lengths, and most of the export up to the present has been of fibre from 1½ inches to 4 inches in length. Lengths up to 8 and 10 inches are not uncommon, tho very unusual in the world's best known deposits of chrysotile asbestos. The fibre in the superficial portions of the lodes is often somewhat deteriorated by weathering, which spoils the color and makes the fibre slightly weak and brittle, but at a shallow depth the quality is excellent, the fibre being very fine, strong, and silky, and readily separated.

Small mills for dressing asbestos have been erected at Soanesville and Lionel. The product of spinning grade has been shipped to Sidney, London, and New York, and the shorter fibre used locally for fibro-cement manufacture. The short fibre has been sold for £20 to £23 per ton at Fremantle, while the overseas shipments have brought up to £250 per short ton in 1921, and £80 to £100 in 1923. The recorded production of asbestos to the end of 1923 has been 669 tons valued at £31,164, practically the whole of which has come from the two localities mentioned.

Typical analyses of Welbing Antophyllite and Soanesville Chrysotile show:

	Welbing Antophyllite	Soanesville Chrysotile
SiO ₂	59.01%	42.98%
Al ₂ O ₃ .....	.38%	.44%
Fe ₂ O ₃	4.63%	1.68%
FeO	5.12%	.24%
MnO .....	.48%	tr.

A S B E S T O S

	Welbing Antophyllite	Soanesville Chrysotile
MgO	25.79%	39.92%
CaO	Nil	Nil
Na ₂ O .....	.39%	tr.
K ₂ O .....	.13%	tr.
H ₂ O	4.02%	14.82%

DON'T STOP

When someone stops advertising—someone stops buying;
 When someone stops buying—someone stops selling.
 When someone stops selling—someone stops making;
 When someone stops making—someone stops earning;
 When someone stops earning—everybody stops buying.
—Jabs.

Subscribers are urged to advise us when they change their addresses. One of our regular readers failed to do this and then wondered why he did not receive the magazine regularly. Often after we receive a notification from the post office that the person cannot be found at the address given, we have a great deal of difficulty in obtaining the new and correct address.

ZONOLITE

A new and wonderfully efficient insulation material, mined in Northwestern Montana.

It is as light as cork; it is fireproof to around 2500 degrees F.

It requires no binder or expensive fibre to hold it together.

It is very easily worked; has a beautiful golden color.

Adheres readily to brick or metal surfaces when troweled on, or can be made into blocks and shapes; no waste.

Very large supply available. We make an attractive delivered price.

If you are a manufacturer of insulation products it will pay you to know more about Zonolite.

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(Mine and plant at Libby, Montana)

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High Grade Asbestos Textiles

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Wick, Rope and Asbestos Specialties

Manufactured directly from the
raw materials to the finished
product in our own factory.

Belfield Ave. and Fisher's Lane
LOGAN, PHILADELPHIA

Two Conferences on Brakes and Brake Lining

At the National Conference on Street and Highway Safety, held on December 16, 1924, at Washington, the following resolution of interest to manufacturers of brake lining, was adopted:

"Pending the adoption by constituted authorities of a code for standard braking ability, all motor vehicles, except possibly motorcycles and heavy trucks, should be capable by means of the service brake alone of stopping in a distance of not more than 50 feet from a speed of 20 miles per hour on a dry, smooth, hard-surfaced road free from any loose material. The emergency brakes should be capable of the same performance as service brakes, but as an absolutely minimum requirement they should be capable of holding the vehicle on any grade which it can ascend.

The fact that there are more than 100 different sizes of asbestos brake lining was the real reason for the general conference on asbestos brake lining simplification, held in the Department of Commerce, Washington, D. C., on December 18, 1924. Those present at this conference included H. G. Collins, of the White Company; C. Fraser, National Standard Parts Association; A. W. Reader, General Motors; O. C. Rhode, Champion Spark Plug Company; R. C. Shropshire, International Motor Company; P. B. Mattix, Auto Division, Department of Commerce; C. F. Clarkson, R. S. Burnett, C. E. Heywood, of Society of Automotive Engineers; R. M. Hudson, Department of Commerce; Dr. F. C. Stanley and A. A. Mowbray, of the Asbestos Brake Lining Association.

Dr. Stanley, who is connected with the engineering department of the Raybestos Company, called attention to the increased costs due to the number of sizes carried, and the impracticability of a full line of sizes being carried by distributors, jobbers, service stations, garages, etc.

One of the points brought out in the conference was that replacement calls for about twice as much brake lining as does equipment and because of the variance of sizes for the two groups, it was suggested that two different lists of standard brake lining sizes be used.

The final result of the conference was the promise of

Asbestos Corporation of Canada, Limited



*The Largest Producers of
Raw Asbestos in the World*



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Phillips Square - Montreal

General Office

THETFORD MINES
Quebec, Canada

ASBESTOS

co-operation among the factors represented, and a definite request that the Asbestos Brake Lining Association compile statistics showing the 1924 sales of asbestos brake lining for equipment separate and distinct from those for replacement purposes.

ASBESTOS F. O. B.

Evidently a shipment of asbestos which left one of the Canadian mining districts the early part of December was sent F. O. B.—the well known initials in this case meaning “full of booze.”

At any rate a car was seized at Malone Junction, which had been shipped out of Montreal over the New York Central, consigned to Brooklyn, and contained a large quantity of bottled beer in barrels, and over the barrels was spread a quantity of asbestos.

Mine operators deny any connection with the transaction, the sale having evidently been made without knowledge as to the purpose for which the material was to be used.

The incident created much amusement in the asbestos industry, but all politely refrained from questioning too closely.

Our readers should bear in mind that we cannot publish articles which are sent in anonymously. If a contributor desires an article published without divulging his identity we agree to withhold his name but it is necessary that we ourselves know the name of the author of the article. Therefore if any of you have sent us material for publication without giving any clue as to your identity you will understand why it is not published.

Reports from the National Automobile Chamber of Commerce indicate a production of automobiles during December of 211,665 (this figure is partly estimated) which brings the total for the year 1924 up to 3,560,813. 1923's total was 4,013,509.

The N. A. C. C. makes the statement that reports from dealers thruout the country indicate the automobile business to be in a very strong position, stocks of both new and used vehicles being light and the winter outlook improved over last year.

— A S B E S T O S —

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Hooking up Advertising with Local Events

BY B. F. RUBY

Recently the big Exchange Elevator in Buffalo was burned to the ground, with a loss of \$750,000.

It so happened that near the elevator was a freight house roofed with asbestos gravel roofing, and also a grain tank with an ordinary fibre gravel roof.

Notwithstanding the fact that the freight house was directly in the track of the fire and subjected to a constant bombardment of burning pieces of wood, finally growing so hot that the firemen could not work from the roof, it was not damaged, while the grain tank roof was burned thru and destroyed.

A few days after the fire, the Johns-Manville Company of Buffalo, called attention to these facts thru a newspaper advertisement, and announced that it would hold a blow torch test on similar types of roofing at its place of business, 208 Main Street, inviting the underwriters' officials to be present at the test.

The test was conducted in the usual fashion, a piece of roofing similar to that on the burned grain tank being used as the alternative material to the asbestos roofing. Despite half an hour's subjection to the blow torch, the asbestos roofing remained substantially undamaged, while the other roofing material was burned thru in five minutes.

When the test was completed, both rolls of roofing were placed in the window of the company, with cards explaining the test.

Crowds gathered around the window daily, and the local newspapers devoted considerable space to the whole event.

This clever utilization of a prominent local event produced its effect and the sales reported as a result were remarkably large.



Balloon tires are in demand because they can absorb bumps.
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*for the manufacture
of*

Roofing Cements • Fibrous Paints

Filtration Packings

Asbestos Shingles and Lumber

Insulating Cements

Asbestos Paper • Pipe Coverings

Asbestos Millboard

High Temperature Cements

**THE QUEBEC ASBESTOS
CORPORATION**



Office and Mines

**EAST BROUGHTON, PROVINCE of QUEBEC
CANADA**

A S B E S T O S



IMPORTS AND EXPORTS



Imports Into U. S. A.

Unmanufactured Asbestos:

	October 1923		October 1924	
	Tons	Value	Tons	Value
Canada	20,208	\$646,800	15,885	\$431,872
England	5	1,137	2	852
Germany .....	..	41	49	5,083
Br. S. Africa	20	5,052	182	18,734
Port. E. Africa	274	69,000	179	35,018
	20,507	\$722,030	16,297	\$491,559

The material coming from Canada during October 1924 (viz.: 15,885 tons) consisted of 546 tons of crude, 5,408 tons mill fibre, and 9,931 tons of lower grades.

The two tons from England were crudes, as also the 179 tons from Port. E. Africa. The material from Germany consisted of 4 tons of crude and 45 of mill fibre, while that from British South Africa consisted of 123 tons of crude and 59 tons of mill fibre.

Manufactured Asbestos:

	October 1924	
	Pounds	Value
<i>Yarn—</i>		
England	877	\$ 625
<i>Fabrics, Woven—</i>		
England	4,782	1,970
<i>Packing, Fabric—</i>		
Canada	87,346	2,456
<i>Packing, not Fabric—</i>		
Austria	77	23
<i>Paper and Millboard—</i>		
Canada	155,662	5,220
<i>Shingles, Slate, Wood or Lumber—</i>		
Belgium	1,267,103	18,204
Canada	4,310	187
<i>Asbestos Cement—</i>		
Canada	7,495	666
<i>Other Manufactures—</i>		
Austria	1,164	570
Belgium	889,413	16,578
Netherlands	200,000	4,958
England	17,117	7,198
Canada	80,618	843
(Total Other Manufactures)	1,188,312	\$30,147
Grand Total	2,715,964	\$59,498

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The total imports of manufactured asbestos goods during October 1923, amounted to 300,936 pounds, valued at \$16,039.00.

Exports from U. S. A.

Exports of unmanufactured asbestos for the month of October, 1924, amounted to 62 tons, valued at \$4,377.00. During October 1923, exports of unmanufactured asbestos amounted to 148 tons, valued at \$7,825.00.

Exports of manufactured asbestos goods:

	October 1923		October 1924	
	Pounds	Value	Pounds	Value
Paper, mld. & rld...	223,819	\$11,697	245,862	\$14,187
Pipe Covg. & Cement...	651,290	45,805	1,044,792	30,393
Textiles, Yarn & Pkg..	93,305	66,653	78,646	57,457
Magnesia & Mfrs. of..	392,555	27,836	296,813	25,189
Asbestos Roofing	7,263 sqs.	23,070	2,717 sqs.	16,188
Other Manufactures ..	212,591	64,509	231,576	73,209

Exports from Canada (Raw Asbestos).

	September 1923		September 1924	
	Tons	Value	Tons	Value
United Kingdom	360	\$ 19,275	371	\$ 22,900
United States	9,938	446,032	4,788	285,121
Australia	50	3,000	50	2,140
Belgium	305	19,800	120	7,800
France	310	18,890	330	30,400
Germany	428	41,400	589	42,500
Italy	160	15,200	170	9,600
Japan	180	13,675	350	19,300
	11,731	\$577,272	6,768	\$420,031

Sand and Waste—

United Kingdom	230	\$ 3,910	235	\$ 3,950
United States	6,145	74,093	6,610	83,398
Belgium	30	600	..	...
France	30	600	60	1,200
Germany	30	600	50	1,000
Other Countries .....	..	...	10	140
	6,465	\$79,802	6,965	\$89,678
Grand Total	18,196	\$657,075	13,733	\$509,709

Imports and Exports by England.

Imports of raw material for October 1924, compared with those for October 1923:

	October 1923		October 1924	
	Tons	Value	Tons	Value
From Rhodesia	429	£12,645	2,291	£66,752
From Canada	388	4,027	726	12,383
From Other Countries ..	308	6,037	565	12,363
	1,125	£12,709	3,582	£91,498

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	October 1923		October 1924	
	Tons	Value	Tons	Value
Re-exports	290	£10,203	647	£21,146

Exports of manufactured asbestos materials, during October 1924, comparing with those for October 1923:

	October 1923		October 1924	
	Tons	Value	Tons	Value
To Netherlands	19	£ 2,950	38	£ 5,497
To France	35	10,928	36	13,101
To U. S. A.	15	5,448	5	1,939
To British India	107	8,446	129	8,841
To Other Countries	1,512	65,847	1,028	57,283
	1,688	£93,619	1,236	£86,661



Rhodesia.¹

Bulawayo District—

	September 1924	
	Tons	Value
Nil Desperandum (Afr. Asb. Min. Co., Ltd.) .	412	£ 5,334
Pangani (J. S. Hancock)	29	339
Shabanie (Rho. & Gen. Asb. Corp., Ltd.)	943	23,579

Victoria District—

Balmain (Afr. Asb. Min. Co., Ltd.) adjust. Apr.		257
Gath's (Rho. & Gen. Asb. Corp., Ltd.)	396	9,902
King (Rho. & Gen. Asb. Corp., Ltd.)	336	6,721
	2,116	£46,132

Union of South Africa.²

	September 1924	
	Tons	Value
Transvaal	244	£3,144
Cape Colony	174	2,668
	418	£5,812

During September 1923, 667 tons were produced, valued at £10,532.

1. Figures published by Rhodesia Chamber of Mines.

2. Figures published by Department of Mines and Industries for the Union of South Africa.



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RHODESIAN WHITE ASBESTOS

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NEWS OF THE INDUSTRY

Birthdays. Our birthday list this month contains the names of the following well-known gentlemen: Robert A. Keasbey, President Robert A. Keasbey Company, on January 16th; G. D. Crabbs, President Philip Carey Company on January 22nd; C. B. Jenkins, Jr., General Asbestos & Rubber Corporation, on January 28th; C. J. Stover, President, Consolidated Asbestos Limited, on January 29th; Benjamin T. Conwell, Jr., Vice President & Treasurer, American Insulation Company, on February 3rd; Sir Mortimer B. Davis, Consolidated Asbestos Limited, on February 6th. To all these gentlemen we extend hearty congratulations and best wishes.

R. P. Doucet, General Manager of Asbestos Corporation of Canada, Ltd., on December 24th, was the recipient of a cabinet of silver and a handsome table lamp, presented to him by the employees of the Corporation. The presentation was made at the Beaver Mine, where some 500 of the men gathered. An address, expressive of good wishes for the New Year was read by J. A. Marcotte of the general office staff. Mr. Doucet in replying, asked for the co-operation of all members of the organization during the coming year. Col. J. J. Penhale also addressed the gathering and refreshments were served.

The Silver Edge. Vol. 4, No. 12, of the Silver Edge, published by the Raybestos Company, reached our desk a few days ago. This issue is the "Institutional Number," and a list of the titles of the articles contained will not only show the nature of the issue but will give a hint of the interesting contents. The History of Raybestos, Pioneer Brake Manufacturers, Face to Face with Facings, Gaskets for the Automotive Trade, Pioneer Fact-Finding Institution (a description of Raybestos Research Laboratory) Assisting to Resell Raybestos, Distribution that Kills Substitution, all sound as interesting as their contents prove to be.

The Clark Asbestos Company, Distributors, Cleveland, Ohio, announce the connection with their company, as of January 1st, of Mr. Fred Podwils, who will have charge of the Contract Department.

Mr. Podwils was formerly manager of the Keasbey & Mattison Company Cleveland Branch, and has been interested in the selling of pipe covering and asbestos goods for about ten years.

The Rathbun Company of Houston, Texas, announce the completion of their plant for the manufacture of Boiler Metal Treatment for removing scale formation in boilers, exterior boiler wall covering for leaky boiler settings, Asbestos Hand-hole and Manhole Gaskets, sterilized wiping rags, metallic packing, hot joint graphite paste and a complete line of roof and industrial paints.

A S B E S T O S

Johns-Manville, Inc., expect to place in operation about April 1st the first unit of their plant at Gretna, La., near New Orleans. The building has been leased from the American Cotton Oil Company, and has 50,000 square feet of space under one roof. Roofing and asbestos shingles will be the first articles to be manufactured, other products later.

The Braiding & Packing Works of America, Inc., Brooklyn, are issuing circulars in loose leaf form, with the idea that as their line increases additional sheets will be sent out. The circulars describe and illustrate the various kinds of packings made by that company.

The Asbestos Construction Company, Inc., on and after January 1st, will be located at 451-453 W. 28th Street, New York City, their former address being 651 W. 43rd Street.

German Asbestos Convention. We note from a recent issue of the India Rubber Journal that the German Asbestos Convention was dissolved on November 24th, 1924. The dissolution of the Convention is deplored by the German manufacturers because of the ill effect of untrammelled competition on profits, and concern is also expressed as to the likelihood of the market being flooded with lower quality asbestos goods manufactured for sale at cut prices.

The Asbestos Corporation, Logan, Philadelphia, announce the endorsement of their brake lining by the Manufacturers' Casualty Insurance Company (Philadelphia), which company now allows a reduction on the premiums paid by automobile owners who have their cars equipped with Allbestos.

The South African Journal of Industries, (November 1924 issue), published by the Government Printing and Stationery Office at Pretoria, contains an interesting article written by A. L. Hall, M. A., F. G. S., Assistant Director, Geological Survey, Union of South Africa, which article gives rather complete information concerning the various forms of Asbestos found in the Union, the firms working or controlling the several deposits, the grading systems used, tables of production, etc., etc.

Freight Rates. Consolidation Classification Committee, Docket No. 21, dated January 1925, proposes the following changes in rates on Asbestos materials:

On Asbestos building felt or paper, not bituminized, Mill-board or Asbestos Composition or Prepared Roofing, and boiler or pipe covering, asbestos, felt or magnesite, separate or combined, or combined with infusorial earth in blocks, forms or sheets, rule 10 is to apply. (Rule 10 is too long to quote here, but a copy of it will be sent upon request, or it can be obtained from the person or firm handling your traffic matters.)

On Cloth or Tape, Insulating, N. O. I. B. N., it is proposed to change the rating on l. c. l. shipments from the first to second class in the official classification.

On Asbestos Roofing Tile, rates for which have not previously been specifically provided for, the following rates are proposed: In bundles, l. c. l., third class in Official, Southern and Western classifications; in boxes or crates l. c. l., fourth class;

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loose or in packages, c. l., minimum weight 36,000 pounds, sixth class in Official, A in Southern and C in Western classifications.

Cincinnati Wage Rates Raised. We are advised that, effective February 24, 1925, and continuing until March 23, 1926, pipe coverers in Cincinnati and vicinity will receive a wage of \$1.17½ per hour, according to new agreement. The rate at present is \$1.12½ per hour.

Philadelphia Employers have raised the rates for pipe covering mechanics to \$1.05 effective January 1, 1925. The previous rate was \$1.00.

PATENTS

Packing, and Method of Making Same. No. 1,513,548. Granted on October 28th, to Charles C. Hall, Kalamazoo, Mich. Filed July 16, 1923. Serial No. 651,882.

Described as a packing comprising strips of sheet lead, sheet aluminum and sheet copper of substantial width, coated with lubricant and spirally twisted into a strand and compacted.

Cement and Asbestos Sheets and Panels, Process of Manufacture. No. 1,514,666. Granted on November 11th, to Ivan Emile Lanhoffer and Oscar Edmond Lanhoffer, Paris, France. Filed December 4, 1922. Serial No. 604,887.

Described as the process of manufacturing molded cement articles, which comprises the steps of forming a wet mortar from disintegrated Asbestos and ground cement, transforming the mortar into a powder, applying a layer of powder against a mold and then removing the molded layer.

Insulating Substance. No. 15952 (Re-issue) Granted on November 25th, to Harold S. Ashenhurst, Chicago, Ill., assignor to Herbert A. Parkyn, Chicago. Filed July 18, 1924. Serial No. 726,893. Original 1,402,133 dated January 3, 1922. Serial No. 382,903. Filed May 20, 1920. Re-issue 15,844, dated May 27, 1924. Serial No. 683,257. Filed Dec. 28, 1923.

Described as a new composition of matter having a pronounced cellular structure and composed of the reaction products of a finely divided material which will hydraulically set as the major ingredient, a water insoluble carbonate, a substance having in water solution an acid reaction with the carbonate whereby carbon dioxide is released, a retarder, and water.

Fire Resistant Shingle and Method of Making Same. No. 1,518,857. Granted on December 9th, to Edgar Layton, Larkspur, Calif. Filed April 18, 1923. Serial No. 633,032.

Described as an article of manufacture, comprising a wooden shingle or the like, having a binder formed of magnesium chloride and a coating consisting of a mixture of magnesite and asbestos suspended in magnesium chloride.

Asbestos Cigarette Paper. No. 1,518,944. Granted on December 9th, to Nathan Sulzberger, New York City. Filed September 13, 1920. Serial No. 409,958.

Described as a cigarette wrapping paper, containing asbes-

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Nederlandsche Asbest My.

Importers of Asbestos
Crudes and Fibres

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Tel. Address:
Nedam Rotterdam

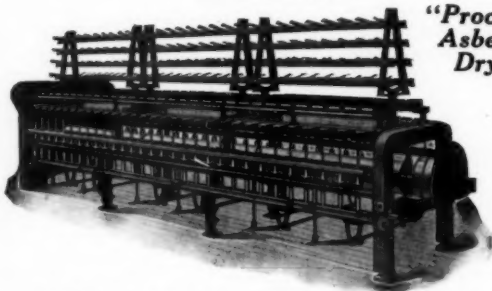
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Codes
A B. C. 5th Edition
Western Union
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ASBESTOS YARN MACHINERY

"Smith-Furbush"

"Proctor"
Asbestos
Dryers



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

Seventh St. & Tabor Rd., Philadelphia, Pa.

— A S B E S T O S —

CYPRUS CHRYBOTILE ASBESTOS SHINGLE STOCK.

Two Grades Only

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Free from talc

Even Quality

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ASBESTOS

tos compounded with a colloid binder and an oxidizing agent and said wrapper containing a cellulose ester.

Pipe Covering. No. 1,519,694. Granted on December 16th, to Vincent C. Muessman, Long Island City, N. Y. Filed July 23, 1921. Serial No. 487,071.

Described as a tube including an inner layer of corrugated sheet material in strip form, having corrugations disposed at slightly less than right angles to its edges and extending longitudinally of the tube, and an outer layer of smooth sheet material covering the corrugated layer.

Our readers may also be interested in patent, numbered 1,517,106, Serial No. 679,549, filed December 10, 1923, and granted on November 25th to Paul J. Donovan, Cleveland, O., assignor to Henrietta H. Donovan, covering a Brake Testing Machine.

Deferroizing Asbestos

For several years Mr. John F. Green has been experimenting on various grades and varieties of asbestos, principally with a view to "deferroizing" (in other words taking the iron out of) asbestos.

Some of the asbestos manufacturers have probably met and talked with Mr. Green, altho we dare say most of our readers are entirely unfamiliar with the work he has been doing, for he has preferred that little be said about it until the experiments came nearer to a conclusion.

Mr. Green's chief idea is to produce an electrical insulation from asbestos which would be an improvement over that presently used. He has already succeeded in producing an improved insulating paper.

He proposes also to provide for the induction of processed asbestos into rubber for insulating purposes, its induction into rubber enabling the compound to be vulcanized under less temperature than now used, which tends to preserve the nerve of the rubber. Another idea is to use the processed asbestos in linoleum.

And then he expects to spin a 100% asbestos cord which will not carbonize, this for use in wrapping electric wires.

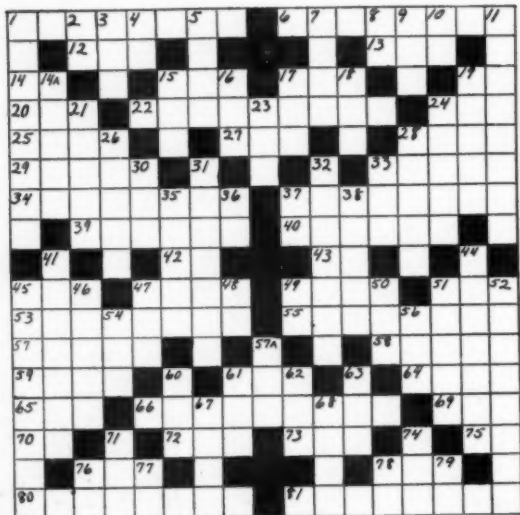
It is likely that during 1925 Mr. Green will definitely put his processes or materials on the market, and thus will occur a new development in the industry.



ASBESTOS

Asbestos Cross Word Puzzle

This one is by John K. Scott of the American Insulation Company, Philadelphia.



HORIZONTAL

1. A foremost insulation company
6. Retrieves
12. Garden implement
13. Exhaust
14. Symbol for Barium
15. By way of
17. Soft mass
19. Symbol for Tantalum
20. Fairy
22. First leaf of a seed plant
24. Bog
25. Seasoning
27. Even
28. Affectionate
29. Gait
33. Boring tool
34. Dish—with eggs as principal ingredient
37. Divide
39. Remorse
40. He who had the party
42. Conjunction
43. And (Latin)

HORIZONTAL

45. Coarse woven fabric
47. Flat-bottomed boat
49. Over again
51. Female deer
53. Fond of sports
55. Small brushes for striping
57. Old English coin
58. Drink to the health of
59. Type; pattern
61. Mineral bearing rock
64. Exclamation of incredulity
65. Eternity
66. Salt of Carbonic acid
69. Blind
70. Symbol for Tin
72. Capture by stratagem
73. Doctors (abbreviation)
75. Rapid Transit (abbreviation)
76. Anger
78. Beverage (since Prohibition)
80. Hard, tin-white metal.
81. Composed of rocks of volcanic origin

ASBESTOS

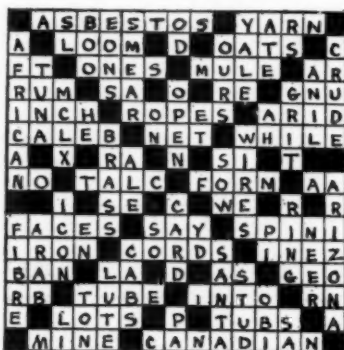
VERTICAL

1. Mineral, unaffected by fire, used in manufacture of pipe coverings, etc.
2. Interrogatory exclamation
3. Decay
4. That is
5. Entrance (Latin)
7. Exclamation
8. Preposition
9. Large covered wagon
10. For example
11. Space between exterior curve of an arch on either side, and the enclosing right angle
- 14-a. Sudden Fear
15. Solemn promise
16. Affirmative
17. Skin tumor
18. Garb
19. Belief
21. One who flees
23. Sheltered place
24. Pillage
26. Stories
28. Strong point
30. Degree (abbreviation)
31. Well known brand of Asbestos Shingles and Lumber
32. Composed of Asbestos and used to cover boilers
33. Stop; impede

VERTICAL

35. Kind of fish
36. English Translation (abbreviation)
37. Steamship (abbreviation)
38. Parent (Latin)
41. Lord of a manor
44. Pirate
45. Substance in Pennsylvania derived from Dolomite rock
46. Spine
47. Fondle
48. Tierce (abbreviation)
49. Like
50. Mental faculty
51. Apportioned
52. Appreciative of the beautiful
54. Lamentations (abbreviation)
56. Post office box (abbreviation)
60. Anathema
61. Obedient (abbreviation)
62. Termination
63. Possessive pronoun
67. Restraint
68. Plane surface
71. Prefix meaning "three"
74. Sun
76. Pronoun
77. Printer's measure
78. Parent
79. Symbol for Platinum

ANSWER TO DECEMBER PUZZLE



BUYERS CLASSIFIED INDEX

Being a listing of those firms whose products are of particular interest to those in the Asbestos Industry.

Rate for listing supplied on application.

We hope to gradually make this listing of great value to our readers.

ASBESTOS TEXTILE MACHINES

WHITIN MACHINE WORKS, Whitinsville, Mass.

January 1925

Page Forty-seven

— A S B E S T O S —

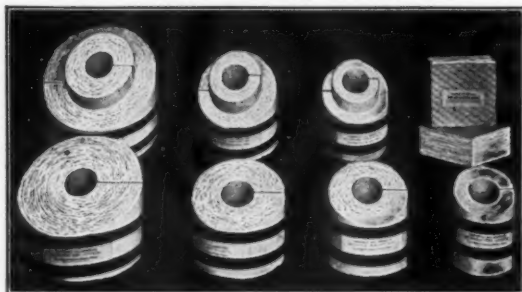
IMPERIAL ALL ASBESTOS COVERING

Wire Stitched with Water Proof Jacket for outside work



IMPERIAL ALL ASBESTOS COVERING

Wire Stitched—Canvass Jacket—Metal Banded
For High Pressure and Superheated Steam Lines



A combination of the two most effective insulating elements, i. e.,
felted Asbestos and "dead" Air Space.

Will not loosen nor crumble from vibration.

Can be removed and replaced without injury.

Will not Sag on Pipes.

Strong and Flexible.

— Manufacturers —

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85% Magnesia
STEAM PIPE AND BOILER INSULATION
AND LOCOMOTIVE LAGGING



The Lightest Weight Steam Pipe and
Boiler Insulation Made

That is Structurally Strong
and
Permanently Effective

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THIS YEAR**

Meaning that the Miner and the Manufacturer will thereby both benefit.

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